

## No. HS-28. National Air Pollutant Emissions: 1900 to 2000

[In thousands of tons, except as indicated (15,956 represents 15,956,000), PM-10=Particulate matter of less than 10 microns. Methodologies to estimate data for 1970 to 1984 period and 1985 to present emissions differ. Beginning with 1985, the estimates are based on a modified National Acid Precipitation Assessment Program inventory]

Year	Emissions							Resident population (1,000)	Real gross domestic product <sup>2</sup> (bil. dol.)
	PM-10	PM-10, fugitive dust <sup>1</sup>	Sulfur dioxide	Nitrogen dioxides	Volatile organic compounds	Carbon monoxide	Lead (ton)		
1900	(NA)	(NA)	9,988	2,611	8,503	(NA)	(NA)	76,094	(NA)
1905	(NA)	(NA)	13,959	3,314	8,850	(NA)	(NA)	83,822	(NA)
1910	(NA)	(NA)	17,275	4,102	9,117	(NA)	(NA)	92,407	(NA)
1915	(NA)	(NA)	20,290	4,672	9,769	(NA)	(NA)	100,546	(NA)
1920	(NA)	(NA)	21,144	5,159	10,004	(NA)	(NA)	106,461	(NA)
1925	(NA)	(NA)	23,264	7,302	14,257	(NA)	(NA)	115,829	(NA)
1930	(NA)	(NA)	21,106	8,018	19,451	(NA)	(NA)	123,077	751.5
1935	(NA)	(NA)	16,978	6,639	17,208	(NA)	(NA)	127,250	728.3
1940	15,956	(NA)	19,953	7,374	17,161	93,615	(NA)	132,457	980.7
1941	16,074	(NA)	22,857	8,262	17,235	91,657	(NA)	133,669	1,148.8
1942	16,192	(NA)	24,541	8,389	16,358	92,449	(NA)	134,617	1,360.0
1943	16,309	(NA)	26,846	8,972	16,323	93,241	(NA)	135,107	1,583.7
1944	16,427	(NA)	27,092	9,455	16,539	94,033	(NA)	133,915	1,714.1
1945	16,545	(NA)	26,373	9,332	18,140	98,112	(NA)	133,434	1,693.3
1946	16,663	(NA)	23,297	9,993	20,549	95,617	(NA)	140,686	1,505.5
1947	16,780	(NA)	26,298	10,470	19,507	96,409	(NA)	144,083	1,495.1
1948	16,898	(NA)	24,284	9,985	19,349	97,202	(NA)	146,730	1,560.0
1949	17,016	(NA)	20,801	10,247	19,720	97,993	(NA)	149,304	1,550.9
1950	17,133	(NA)	22,384	10,093	20,936	102,609	(NA)	151,868	1,686.6
1951	16,976	(NA)	21,477	10,535	20,398	99,285	(NA)	153,982	1,815.1
1952	16,818	(NA)	20,826	11,056	20,208	99,784	(NA)	156,393	1,887.3
1953	16,661	(NA)	20,920	11,104	21,258	100,283	(NA)	158,956	1,973.9
1954	16,503	(NA)	20,181	11,663	21,232	100,782	(NA)	161,884	1,960.5
1955	16,346	(NA)	21,453	11,667	23,249	106,177	(NA)	165,069	2,099.5
1956	16,188	(NA)	21,039	11,867	22,902	101,780	(NA)	168,088	2,141.1
1957	16,031	(NA)	21,272	12,248	22,784	102,279	(NA)	171,187	2,183.9
1958	15,873	(NA)	22,634	13,012	21,846	102,778	(NA)	174,149	2,162.8
1959	15,715	(NA)	22,654	13,486	22,703	103,278	(NA)	177,135	2,319.0
1960	15,558	(NA)	22,245	14,140	24,459	109,745	(NA)	179,979	2,376.7
1961	15,286	(NA)	22,142	13,809	24,584	106,207	(NA)	182,992	2,432.0
1962	15,014	(NA)	22,955	14,408	25,036	108,637	(NA)	185,771	2,578.9
1963	14,742	(NA)	24,133	15,100	27,062	111,067	(NA)	188,483	2,690.4
1964	14,470	(NA)	25,301	15,871	26,948	113,498	(NA)	191,141	2,846.5
1965	14,189	(NA)	26,380	17,424	30,247	118,912	(NA)	193,526	3,028.5
1966	13,926	(NA)	28,849	17,390	27,827	118,358	(NA)	195,576	3,227.5
1967	13,654	(NA)	28,493	17,635	28,209	120,788	(NA)	197,457	3,308.3
1968	13,382	(NA)	30,263	18,372	26,568	123,219	(NA)	199,399	3,466.1
1969	13,110	(NA)	30,961	18,847	26,764	125,649	(NA)	201,385	3,571.4
1970	13,042	(NA)	31,161	20,928	30,982	129,444	220,869	203,984	3,578.0
1971	11,335	(NA)	29,686	21,559	30,039	129,491	243,415	206,827	3,697.7
1972	10,734	(NA)	30,390	22,740	30,297	128,779	255,555	209,284	3,898.4
1973	10,237	(NA)	31,754	23,529	29,873	125,935	223,686	211,357	4,123.4
1974	9,636	(NA)	30,032	22,915	28,042	119,978	178,693	213,342	4,099.0
1975	7,671	(NA)	28,011	22,632	26,079	116,757	159,659	215,465	4,084.4
1976	7,906	(NA)	28,435	24,051	26,991	120,963	165,349	217,563	4,311.7
1977	7,739	(NA)	28,623	24,808	27,426	120,868	152,467	219,760	4,511.8
1978	7,865	(NA)	26,877	25,070	27,655	122,150	137,964	222,095	4,760.6
1979	7,571	(NA)	26,941	24,716	27,161	118,475	116,786	224,567	4,912.1
1980	7,119	(NA)	25,905	24,384	26,336	117,434	74,153	227,225	4,900.9
1981	6,605	(NA)	24,612	24,211	24,956	114,396	58,884	229,466	5,021.0
1982	5,274	(NA)	23,319	23,785	23,866	112,260	57,666	231,664	4,919.3
1983	6,021	(NA)	22,807	23,639	25,078	117,675	49,232	233,792	5,132.3
1984	6,281	(NA)	23,816	24,322	26,015	116,533	42,217	235,825	5,505.2
1985	4,831	36,567	23,215	23,085	24,426	116,572	22,890	237,924	5,717.1
1986	4,673	35,973	22,884	22,689	23,614	111,227	14,763	240,133	5,912.4
1987	4,778	36,135	22,659	22,944	23,469	110,320	7,681	242,289	6,113.3
1988	5,598	37,364	23,133	23,994	24,305	118,226	7,053	244,499	6,368.4
1989	4,811	36,153	23,292	23,757	22,511	105,914	5,468	246,819	6,591.8
1990	5,068	22,813	23,679	24,170	21,053	99,119	4,975	249,623	6,707.9
1991	4,727	22,759	23,044	24,338	21,249	101,797	4,169	252,981	6,676.4
1992	4,615	22,634	22,813	24,732	20,862	99,007	3,810	256,514	6,880.0
1993	4,533	22,969	22,474	25,116	21,099	99,791	3,916	259,919	7,062.6
1994	4,753	24,003	21,875	25,474	21,683	103,713	4,047	263,126	7,347.7

See footnotes at end of table.

## No. HS-28. National Air Pollutant Emissions: 1900 to 2000—Con.

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Year	Emissions							Resident population (1,000)	Real gross domestic product <sup>2</sup> (bil. dol.)
	PM-10	PM-10, fugitive dust <sup>1</sup>	Sulfur dioxide	Nitrogen dioxides	Volatile organic compounds	Carbon monoxide	Lead (ton)		
1995 . . . . .	4,585	21,346	19,189	25,051	20,918	94,058	3,929	266,278	7,543.8
1996 . . . . .	4,676	18,563	19,433	25,658	19,906	104,600	4,077	269,394	7,813.2
1997 . . . . .	4,828	19,259	19,925	25,910	20,305	105,466	4,137	272,647	8,159.5
1998 . . . . .	4,452	19,261	20,045	25,572	19,258	101,246	4,057	275,854	8,508.9
1999 . . . . .	4,815	19,213	19,335	24,970	19,421	102,356	4,199	279,040	8,859.0
2000 . . . . .	5,555	19,309	18,187	24,442	20,366	109,300	4,228	282,224	9,191.4
Highest value . . . . .	17,133	37,364	31,754	25,910	30,982	129,491	255,555	282,224	9,191
Lowest value . . . . .	4,452	18,563	9,988	2,611	8,503	91,657	3,810	76,094	981
PERCENT CHANGE FROM PRIOR YEAR SHOWN <sup>3</sup>									
1905 . . . . .	(NA)	(NA)	28.4	21.2	3.9	(NA)	(NA)	9.2	(NA)
1910 . . . . .	(NA)	(NA)	19.2	19.2	2.9	(NA)	(NA)	9.3	(NA)
1915 . . . . .	(NA)	(NA)	14.9	12.2	6.7	(NA)	(NA)	8.1	(NA)
1920 . . . . .	(NA)	(NA)	4.0	9.4	2.3	(NA)	(NA)	5.6	(NA)
1925 . . . . .	(NA)	(NA)	9.1	29.3	29.8	(NA)	(NA)	8.1	(NA)
1930 . . . . .	(NA)	(NA)	-10.2	8.9	26.7	(NA)	(NA)	5.9	(NA)
1935 . . . . .	(NA)	(NA)	-24.3	-20.8	-13.0	(NA)	(NA)	3.3	-3.2
1940 . . . . .	(NA)	(NA)	14.9	10.0	-0.3	(NA)	(NA)	3.9	25.7
1945 . . . . .	3.6	(NA)	24.3	21.0	5.4	4.6	(NA)	0.7	42.1
1950 . . . . .	3.4	(NA)	-17.8	7.5	13.4	4.4	(NA)	12.1	-0.4
1955 . . . . .	-4.8	(NA)	-4.3	13.5	9.9	3.4	(NA)	8.0	19.7
1960 . . . . .	-5.1	(NA)	3.6	17.5	4.9	3.3	(NA)	8.3	11.7
1965 . . . . .	-9.6	(NA)	15.7	18.8	19.1	7.7	(NA)	7.0	21.5
1970 . . . . .	-8.8	(NA)	15.3	16.7	2.4	8.1	(NA)	5.1	15.4
1975 . . . . .	-70.0	(NA)	-11.2	7.5	-18.8	-10.9	-38.3	5.3	12.4
1980 . . . . .	-7.8	(NA)	-8.1	7.2	1.0	0.6	-115.3	5.2	16.7
1984 . . . . .	-13.3	(NA)	-8.8	-0.3	-1.2	-0.8	-75.6	3.6	11.0
1985 . . . . .	-30.0	(NA)	-2.6	-5.4	-6.5	0.0	-84.4	0.9	3.7
1986 . . . . .	-3.4	-1.7	-1.4	-1.7	-3.4	-4.8	-55.0	0.9	3.3
1987 . . . . .	2.2	0.4	-1.0	1.1	-0.6	-0.8	-92.2	0.9	3.3
1988 . . . . .	14.6	3.3	2.0	4.4	3.4	6.7	-8.9	0.9	4.0
1989 . . . . .	-16.4	-3.3	0.7	-1.0	-8.0	-11.6	-29.0	0.9	3.4
1990 . . . . .	5.1	-58.5	1.6	1.7	-6.9	-6.9	-9.9	1.1	1.7
1991 . . . . .	-7.2	-0.2	-2.8	0.7	0.9	2.6	-19.3	1.3	-0.5
1992 . . . . .	-2.4	-0.6	-1.0	1.6	-1.9	-2.8	-9.4	1.4	3.0
1993 . . . . .	-1.8	1.5	-1.5	1.5	1.1	0.8	2.7	1.3	2.6
1994 . . . . .	4.6	4.3	-2.7	1.4	2.7	3.8	3.2	1.2	3.9
1995 . . . . .	-3.7	-12.4	-14.0	-1.7	-3.7	-10.3	-3.0	1.2	2.6
1996 . . . . .	1.9	-15.0	1.3	2.4	-5.1	10.1	3.6	1.2	3.4
1997 . . . . .	3.1	3.6	2.5	1.0	2.0	0.8	1.5	1.2	4.2
1998 . . . . .	-8.4	0.0	0.6	-1.3	-5.4	-4.2	-2.0	1.2	4.1
1999 . . . . .	7.5	-0.2	-3.7	-2.4	0.8	1.1	3.4	1.1	4.0
2000 . . . . .	13.3	0.5	-6.3	-2.2	4.6	6.4	0.7	1.1	3.6

NA Not available. <sup>1</sup> Sources such as agricultural tilling, construction, mining and quarrying, paved roads, unpaved roads, and wind erosion. <sup>2</sup> Gross domestic product in chained (1996) dollars. <sup>3</sup> For 1905, change from 1900.

Source: U.S. Environmental Protection Agency, *National Air Pollutant Emission Trends, 1900-1997*, EPA 454/C-98-007, *National Air Quality and Emissions Trends Report, 1999*, EPA-454/R-01-004; and Internet site at <[www.epa.gov/airtrends/](http://www.epa.gov/airtrends/)> and <<http://www.epa.gov/oar/aqtrnd00/brochure/00brochure.pdf>> (released September 2001).